

ABSTRACT

A winged submersible having a neutral to positive buoyancy utilizes an inverted wing structure to allow the wings to create downward force on the submersible in response to forward movement. Internal pressure pods are provided to allow an occupant to maintain a recumbent sitting position. The pressure pods are maintained at a constant pressure with life support systems, while the remainder of the hull is not pressurized. Acrylic domes are positioned to allow access to each internal pressure pod and when closed, the occupant's head is positioned within the center of the dome for optimal optics under water. Wings with adjustable control surfaces provide the submersible with the ability to roll about a longitudinal axis 0 - 360 degrees in either direction.